第24卷 第1期 植 物 研 究 2004年 1月
Vol. 24 No. 1 BULLETIN OF BOTANICAL RESEARCH Jan., 2004

锦鸡儿属(豆科)一新组合*

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摘 要 中间锦鸡儿(*Caragana korshinskii* var. *intermedia*)，与柠条锦鸡儿(*C. korshinskii*)和小叶锦鸡儿(*C. microphylla*)是近缘种。但以前有不同的分类学名称和处理, 本文把它作为柠条锦鸡儿的一变种(*C. korshinskii* Kom. var. *intermedia* (Kuang et H. C. Fu) M. L. Zhang &G. H. Zhu)来处理。

关键词 锦鸡儿属; 命名

A new combination of *Caragana* (Fabaceae) from China

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Abstract *Caragana korshinskii* var. *intermedia*, has taxonomical relation to *C. korshinskii* and *C. microphylla*. But a long time there are many confusedly and not available names to them. *C. korshinskii* Kom. var. *intermedia* (Kuang et H. C. Fu) M. L. Zhang &G. H. Zhu is proposed in this paper.

Key words *Caragana*; nomenclature

Caragana intermedia Kuang &H. C. Fu, *C. korshinskii* Kom. and *C. microphylla* Lam. are three closely related species in *C.* ser. *Microphyllae* (Kom.) Pojark. Sometimes there are different treatments[1~8]. These three species have connected but distinct distribution ranges and only overlapping in a small region in Inner Mongolia, China. *C. korshinskii* is distributed in W Inner Mongolia, Ningxia, W Gansu, and SW Mongolia, *C. microphylla* is found in NE China, E Mongolia, and Russia (Siberia), while *C. intermedia* is limited to the Loess Plateau, an area in between of the two previous species. Due to its morphological similarities to both *C. korshinskii* and *C. microphylla*, the identity of *C. intermedia* is unclear.

Although *Caragana intermedia* has been recognized by some taxonomists[2,9], recent hybridation and molecular studies support that it is a hybrid between *C. korshinskii* and *C. microphylla*[4,6~8], and it has been treated as a subspecies or variety of *C. microphylla*[4,10]. However, based on successful hybridization and high F1 fertile rate between *C. korshinskii* and *C. intermedia*, Xu et al[3]. suggested that *C. intermedia* should be treated as an infraspecifiic taxon of *C. korshinskii* instead of *C. microphylla*. Wei et al[8]. based on RAPD molecular study support this proposal. Our herbarium and field studies support these three species are closely related morphologically, and *C. intermedia* is closer to *C. korshinskii* instead of *C. microphylla*. Therefore we propose the new combination *Caragana korshinskii* Kom var. *intermedia* (Kuang et H. C. Fu) M. L. Zhang &G. H. Zhu.

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收稿日期: 2003-06-17

A key to the three taxa

1a. Pod strip and flat resupinate, apex long. ………………………………………………………………… *C. microphylla*

1b. Pod lanceolate, rectangle-round lanceolate, apex short and acuminate ……………………………………… **C. korshinskii.**

  2a. Tall shrub, bark goldish-yellow, leaflet broad lanceolate ……………………………………………… var. ***korshiskii.***

  2b. Low shrub, bark gray, yellowish-green, or yellowish-white, leaflet elliptical or obvote ……………………… var. ***intermedia.***

Caragana korshinskii Kom. var. ***intermedia*** (Kuang & H. C. Fu) M. L. Zhang & G. Zhu comb. nov. Basionyms：*Caragana intermedia* Kuang & H. C. Fu, in Flora Intramongolica, vol. Addenda 287. 1977.

Distribution：Central Inner Mongolia：Silingolemeng，Wulanchabumeng，Yikezhaomeng. Northern Hebei：Zhangjiakou region. Northwestern Shanxi. Northern Shaanxi：Yulin region，Yanan region. Eastern Gansu. Eastern Ningxia.

Specimens examined. *Inner Mongolia*：Chifeng city：Wang Wei，3131 (PE)；Jin Hou-lian，？(PE)；Exp. Yellow River，7263 (PE)；Jining-Erlianhaote：Wang Chao-pin，34 (HIMC)；Silingolemeng：Exp. Intramongolian Univ.，47，(HIMC)；Wushenqi：Xu Zhi—jie，89 (HIMC)；Fu Kun-tsun，7228 (PE)；Yijinhuoloqi：Zhang Ming-li，99-152，99-188，20012 (PE). Hebei：Zhangbei county：Exp. Inst. Bot.，7098，5521，6101，5831，6219，3889，5800 (PE)；Zhangjiakou：Exp. Inst. Bot.，4740 (PE). Shanxi：Linxian county：Exp. Yellow River，1361，1381 (PE)，1826 (WUG)；Zhang Yong-zhu，410 (WUG)；Lishi county：Li Pei-yuan，10195 (WUG)；Pianguan county：Exp. Yellow River，2960 (PE)；Wuzai county：Yang Jin-xiang，3264 (WUG)；Xingxian county：Exp. Yellow River，2018 (PE，WUG)；Xiyang county：Exp. Loess Plateau，01233 (WUG). Shaanxi：Hengshan county：Exp. Yellow River，7458 (PE，WUG)；Liu Ji-meng，11540 (PE)；Jingbian county：Exp. Yellow River，7690，10517 (PE)；Fu Kun-tsun，7395，10517 (PE)；Shengmu county：Zhang Wen-jin，93 (PE，WUG)；Exp. Yellow River，1134 (WUG)；Suide county：Exp. Yellow River，6855 (PE)；395 (WUG)；Hsia Wei-ying，3416 (PE)；Fu Kun-tsun，6420 (WUG)；Zhang Zhen-wan，655 (WUG)；Wuchi county：Exp. Yellow River，8254 (WUG)；Yulin county：Exp. Yellow River，7134 (PE)；Zhang Wen-jin，134 (PE，WUG)；Hsia Wei-ying，3705 (PE)；Fu Kun-tsun，7045 (PE)；Zhang Zhi-ying，17525 (WUG)，Wang Zuo-bin，18263 (WUG)；Zhidan county：Xu Lang-ran，743 (WUG). Fugu county：Exp. Loess Plateau，1113 (WUG). Gansu：Lanzhou city：Exp. Yellow River，2950 (WUG)；Huining county：Yu Zhao-ying，Xu Yang-pen，3745 (WUG)；Jinyuan county：Yu Zhao-ying，Xu Yang-pen，2873 (WUG)；Huan county：Yu Zhao-ying，Xu Yang-pen，1299 (WUG). Ningxia：Zhongwei county：Xu Lang-ran，777，807，885 (WUG)；Xu Yang-pen，Yu Zhao-ying，1508 (WUG)；Yanchi county：Yang Jin-xiang，5197 (WUG).

Acknowledgments We are grateful to the curators of KUN，MO，PE and WUG for assistance with herbarium studies. Thank Chang Chao-yang for helps in WUG. This study is supported by the National Natural Science Foundation of China NSFC (No. 39893360，49971006) to the senior author.

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